Applicant: Loeb *et al.*
For: JACK MODULE WITH INTEGRATED MODEM INTERFACE
               CIRCUITS

1   1.   A jack module with integrated modem interface circuits comprising: a jack

2   housing for receiving a plug; a plurality of contacts in said housing for engaging contacts

3   on a plug; a plurality of terminals in said housing interconnecting with a mounting

4   member; and a line side circuit in said jack housing interconnecting with said contacts.

1   2.   The jack module of claim 1 in which said jack housing receives a public

2   services telephone network plug.

1   3.   The jack module of claim 1 in which said jack housing receives an RJ11

2   plug.

1   4.   The jack module of claim 1 in which said terminals include pins.

1   5.   The jack module of claim 4 in which said terminals include solder pins.

1   6.   The jack module of claim 1 further including an isolation circuit in said

2   housing between said line side circuit and said terminals for isolating said line side circuit

3   from a system side circuit.

1   7.   The jack module of claim 6 in which said system side circuit is on said

2   mounting member.

1   8.   The jack module of claim 1 in which said mounting member includes a

2   motherboard.

1   9.   The jack module of claim 1 in which said mounting member includes an

2   add-in card.

1   10.   The jack module of claim 1 in which said jack housing includes an

2   electrical protection circuit.

1   11.   The jack module of claim 10 in which said electrical protection circuit

2   includes a fuse.

1   12.   The jack module of claim 11 in which said fuse includes a UL1950 fuse.

1   13.   The jack module of claim 1 in which said jack housing further includes

2   _ line reversal diode bridge.

1   14.   The jack module of claim 1 in which said jack housing further includes

2   compliance circuits.

1   15.   The jack module of claim 6 in which said isolation circuit includes at least

2   one capacitor.

1   16.   The jack module of claim 6 in which said isolation circuit includes a

2   transformer.

1   17.   The jack module of claim 10 in which said protection circuit includes a

2   lightning suppression circuit.